

Search Result

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Database
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198915

Purificn. of electro-filter ash contg. ammonia and ammonium salts - by heating in rotary furnaces and trapping ammonia driven off

Patent Assignee: HOLTER H (HOLT-I)

Inventor: DEWERT H; GRESCH H; IGELBUSCHE H

Number of Countries: 001

Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3732026	A	19890406	DE 3732026	A	19870923	198915 B

Priority Applications (No Type Date): DE 3732026 A 19870923

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 3732026	A		2		

Abstract (Basic): DE 3732026 A

Purification of E-filter ash contaminated with ammonia and its sulphur acid salts comprises continuously heating the filter ash in a drum furnace at 350-500 deg.C to cause thermal decomposition of the ammonium salts, and trapping the ammonia emerging from the furnace in water or acid or elading it directly back to the combustion unit for the purposes of NOx redn.

USE/ADVANTAGE - The process allows ash from the electro filters of combustion units to be purified for commercial sale with recovery of the ammonia released or use of this for redn. of NOx in the combustion gases.

Title Terms: PURIFICATION; ELECTRO; FILTER; ASH; CONTAIN; AMMONIA; AMMONIUM ; SALT; HEAT; ROTATING; FURNACE; TRAP; AMMONIA; DRIVE

Derwent Class: E36; J01; L02

International Patent Class (Additional): B01D-053/34; B01J-020/34; C01C-001/02

File Segment: CPI

Manual Codes (CPI/A-N): E11-Q02; E31-H02; E32-A; E32-A02; J01-E02; J01-G04; L02-B03

Chemical Fragment Codes (M3):

01 C500 C730 C800 C801 C802 C804 C806 C807 M411 M720 M781 M903 M904 M910 N164 N514 Q431 Q436 Q453 R01713-P R01713-U

02 C107 C108 C307 C520 C730 C800 C801 C802 C803 C804 C807 M411 M750 M903 M904 M910 N164 Q431 Q436 Q453 R01784-X

Derwent Registry Numbers: 1713-P; 1713-U; 1784-U

Specific Compound Numbers: R01713-P; R01713-U; R01784-X

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198840

Desorbing ammonia from ash in denitrified fumes - by keeping solids at high temp. for specified time in desorber

Patent Assignee: STEAG AG (STGG)

Inventor: HANNES K

Number of Countries: 001

Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3708941	A	19880929	DE 3708941	A	19870320	198840 B
DE 3708941	C	19890223				198908

Priority Applications (No Type Date): DE 3708941 A 19870320

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 3708941	A		6		

Abstract (Basic): DE 3708941 A

Dust or ash particles present in combustion fumes which have been treated with reducing NH₃ in the catalytic or non-catalytic NOX reaction process, and are still charged with unused NH₃ or derived cpds. have the gas expelled when the solids are held for up to 8 hours at 200-600 deg.C in a desorber. Heat source for desorber are the fumes discharged from the furnace. Desorbed gases are recovered for re-use in de-nitification, and the still hot ash is used to pre-heat furnace combustion air entering via the cooler tube down which the hot ash is descending for a period from 15 min. to 2 hrs.

ADVANTAGE - Thermal sepn. treatment for NH₃ is effectively combined with furnace operation.

0/4

Abstract (Equivalent): DE 3708941 C

Fly-ash and other solids in fumes which have been de-nitrified and still contain traces of the redn. agent, esp. NH₃, or cpds. thereof, has the redn. material expelled when the ashes are heated to appropriate temp. by the exhaust gas stream. The collected solids drop inside a desorption faller tube at not more than 30 deg. inclination in a fume conduit. The faller tube has a hydraulic ID of 10-500 mm, and apertured wall cuts permitting gas exchange with the tube exterior and promoting internal lance, but with min. solids transfer through the tube wall. e appts. needs no further energy for thermally expelling the reducing material.

(6pp)

Title Terms: DESORB; AMMONIA; ASH; DENITRIFICATION; FUME; KEEP; SOLID; HIGH ; TEMPERATURE; SPECIFIED; TIME; DESORB

Derwent Class: E36; J01; P35; Q73

International Patent Class (Additional): A62D-003/00; B01D-050/00; B01D-053/34; F23J-015/00

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): E11-Q02; E31-H02; E32-A02; J01-E02; J01-G03B

Chemical Fragment Codes (M3):

01 C107 C108 C307 C520 C730 C800 C801 C802 C803 C804 C807 M411 M424

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Westlaw

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M740 M750 M903 M904 M910 N163 Q431 R01784-X

02 C500 C730 C800 C801 C802 C804 C806 C807 M411 M781 M903 M904 M910
N163 Q431 Q509 R01713-U

Derwent Registry Numbers: 1713-U; 1784-U

Specific Compound Numbers: R01784-X; R01713-U

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